

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

Claim 1 (Currently Amended): A video playback unit comprising:

video playback means for reading in a designated video file and outputting a video of the video file for playback;

scene description file read-in means for reading in a scene description file which describes a scene inside the video file;

means for outputting a time information sequence existing before and after the current playback time of the video within time information described in the scene description file;

means for outputting the still image sequence corresponding to the time information displayed, wherein the still image is described in the scene description file;

means for renewing the display of the time information sequence and the still image sequence by synchronizing with the current playback time of the video while playing back the video; and

display means for displaying said video, time information sequence and still image sequence.

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Claim 2 (Original): The video playback unit according to claim 1, wherein

said video playback means starts to play back the video from the time decided by the time information selected from within at least one of said time information sequence and still image sequence or the time information of a still image .

Claim 3 (Original): The video playback unit according to claim 1, comprising:

a cache memory storing in advance said scene description file, wherein

said scene description file read-in means reads the time information sequence and a still image display sequence from the cache memory when the display of said time information sequence and the still image sequence are changed.

Claim 4 (Original): A video delivery unit having:

means for delivering a video data related to the designated video file from a server at a constant transmission rate; and

means for delivering a scene description data which describes the scene of the video file from the server by synchronizing with the video data at a constant transmission rate.

Claim 5 (Original): The video delivery unit according to claim 4, wherein

the transmission rate of said scene description data is decided by a file size and a scene information described in the scene description file.

Claim 6 (Currently Amended): A video playback unit for receiving said video data and said scene description data which are delivered from the video delivery unit according to at least one of claim 4 and 5, comprising:

a cache memory for storing the video data and the scene description data in a received order;

video playback means for reading in the video data stored in the cache memory and outputting the video data for playing back;

scene description file read-in means for reading in the scene description file stored in the cache memory;

means for outputting the time information sequence existing before and after the current playback time of the video wherein the time information is described in the scene description data:

means for outputting the still image sequence corresponding to the time information displayed wherein the still image is described in the scene description data;

means for changing a display of the time information sequence and the still image sequence by synchronizing with the current playback time of the video while playing back the video; and

display means for displaying said video, time information sequence and still image sequence.

Claim 7 (Original): The video playback unit according to claim 1, wherein

said scene description file read-in means reads in the scene description file corresponding to the predetermined number of time information sequences and still image sequences.

Claim 8 (Original): The video playback unit according to claim 1, wherein

means for outputting said time information sequence and the still image sequence changes the time information sequence and the still image sequence being displayed to the time information sequence to be displayed next and the still image sequence corresponding to the time information sequence, respectively, when said playback time of the video has passed designated time information.

Claim 9 (Original): The video playback unit according to claim 6, comprising

means for transmitting the time which is decided by the time information selected within said time information sequence and still image sequence or the time information of the still image to the video delivery unit;

wherein the video data and the scene description data corresponding to the time information are received from the video delivery unit, the received video data is played back and displayed, and the time information sequence and the still image sequence from the received scene description data are displayed.

Claim 10 (Original): The video playback unit according to claim 1, wherein

said time information sequence is at least one of the time information sequence which increases by a designated time step, the time information sequence of the top of a cutting point which shows a scene change of the video, the time information sequence of a key frame point which shows a center of the video scene, the time information sequence which shows a switching point from non-audible sound to audible sound of the audio, the time information sequence which shows a time when a specific effective sound such as clapping, laughter has generated, the time information sequence which shows a time when a specific video such as a telop and a CG video has generated and the time information sequence designated arbitrarily.

Claim 11 (Currently Amended): A computer readable recording medium recorded with a program comprising:

a process for reading in a designated video file and for outputting the video of the video file for playback;

a process for reading in the scene description file which describes the scene inside the video file;

a process for outputting the time information sequence existing before and after the current playback time of the video wherein the time information is described in the scene description file;

a process for outputting the still image sequence corresponding to the time information displayed wherein the still image is described in the scene description file; and

a process for changing the display of the time information sequence and the still image sequence by synchronizing with the current playback time of the video while playing back the video.

Claim 12 (Original): The computer readable recording medium according to claim 11, further being recorded with a program wherein

it is determined whether the playback time of said video has passed a designated time information or not and, when determined that it has passed, the time information sequence and the still image sequence being displayed are changed to the time information sequence and the still image sequence corresponding to the time information sequence to be displayed next and outputted.

Claim 13 (Original): A video playback unit of a plurality of videos comprising:

video description file processing means for reading in a video description file of a designated video group;

main video playback means for playing back a first main video file designated by the video information described in the video description file;

proxy video playback means for playing back a second proxy video file designated by the video information described in said video description file; and

display means for displaying the first main video and the second proxy video played back by said main video playback means and proxy video playback means,

wherein said proxy video file is small in a file size or a coded bit rate in contrast to said main video file.

Claim 14 (Original): The video playback unit of a plurality of videos according to claim 13, wherein

said second proxy video file is displayed inside or outside the display screen of said first main video file.

Claim 15 (Original): The video playback unit of a plurality of videos according to the claim 14, comprising:

means for changing the playback display of the second proxy video file to the playback display of the second main video file; and

means for changing the playback display of the first main video file to the playback display of the first proxy video file;

wherein the first proxy video file is displayed inside or outside the display screen of the second main video file.

Claim 16 (Original): A video playback unit of a plurality of videos comprising:

video description file processing means for reading in a video description file of a designated video group;

proxy video playback means for playing back the proxy video files of a plurality of video files designated by the video information described in the video description file;

means for selecting one video file from the displayed proxy video file; and

means for changing the selected proxy video file to the playback display of the main video file.

Claim 17 (Original): A video playback unit of a plurality of videos comprising:

video description file processing means for reading in a video description file of a designated video group;

main video playback means for playing back the first main video file designated by the video description file;

proxy video playback means for playing back the first to the nth proxy video files designated by the video description file;

means for selecting an arbitrary proxy video file from the displayed n pieces of the proxy video files; and

means for switching the first main video file being displayed to the main video playback display of the arbitrary proxy video file.

Claim 18 (Original): The video playback unit of a plurality of videos according to claim 17, wherein

the playback time of the arbitrary proxy video is taken as a playback starting time of the optional main video file at the time when switched to the playback display of said arbitrary main video file.

Claim 19 (Original): A video playback unit of a plurality of videos comprising:

video description file processing means for reading in a video description file of a designated video group;

main video playback means for playing back the first main video file designated by the video information described in the video description file;

proxy video playback means for playing back the second to the nth proxy video files designated by the video information described in the video description file;

means for selecting an arbitrary proxy video file from the playback proxy video file; and

means for changing the playback display of the arbitrary proxy video file to the playback display of the main video file, and changing the playback display of said first main video file to the playback display of the proxy video file.

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Claim 20 (Original): The video playback unit of a plurality of videos according to claim 19,

the playback time of the arbitrary proxy video file is taken as the playback starting time of the main video file at the time when said arbitrary proxy video file is switched to the playback display of the main video file, and the playback time of the first main video file is taken as the playback starting time of the arbitrary proxy video file at the time when said first main video file is switched to the playback display of the proxy video file.

Claim 21 (Original): The video playback unit of a plurality of videos according to claim 13, comprising:

means for reading in the scene description file which describes the scene inside the selected main video file,

wherein the scene inside the main video file is displayed on said display means based on the scene information described in the scene description file.

Claim 22 (Original): The video playback unit of a plurality of videos according to claim 21, wherein

the scene information described in said scene description file are scenes existing before and after the playback time of said main video file.

Claim 23 (Original): The video playback unit of a plurality of videos according to claim 21,
wherein

the scene information described in said scene description file is the time information and
the still image, the video playback unit comprising:

means for outputting the time information sequence existing before and after the playback
time of said main video file within said time information; and

means for outputting the still image sequence corresponding to said time information
sequence within said still image, wherein

said time information sequence and still image sequence are displayed on said display
means.

Claim 24 (Original): The video playback unit of a plurality of videos according to claim 23,
wherein

the displays of said time information sequence and said still image sequence are changed
by synchronizing with the playback time of said main video file.

Claim 25 (Original): A video delivery unit comprising:

means for delivering a designated video description file from a server;

means for delivering the main video file and the proxy video file described in the video
description file from the server at a constant transmission rate;

means for delivering the scene description file which describes the scene of the video file described in the video description file from the server by synchronizing with said main video data at a constant transmission rate.

Claim 26 (Original): The video delivery unit according to claim 25, wherein

the transmission rate of said scene description file is decided from the file size and the scene information described in the scene description file.

Claim 27 (Original): A video playback unit which receives said main video file, the proxy video file and the scene description file delivered from the video delivery unit according to one of claims 25 and 26, the video playback unit of a plurality of videos comprising:

means for reading in said video description file;

a cache memory for storing said main video file, the proxy video file and the scene description file in a received order;

means for reading in the scene description file content stored in the cache memory;

means for outputting the time information sequence existing before and after the playback time of the video, wherein the time information is described in the scene description file;

means for outputting the still image sequence corresponding to the time information displayed, wherein the still image described in the scene description file;

main video playback means for playing back the main video file designated by the video information described in the video description file;

proxy video playback means for playing back the proxy video file designated by the video information described in the video description file;

means for displaying said main video, proxy video, time information sequence and still image sequence; wherein

means for outputting said time information sequence changes the displays of the time information sequence and the still image sequence by synchronizing with the playback time of the main video file.

Claim 28 (Original): The video playback unit according to claim 27, wherein

means for outputting said time information sequence changes the time information sequence and the still image sequence being displayed to the time information sequence to be displayed next and the still image sequence corresponding to the time information sequence, respectively, when the playback time has passed the designated time information.

Claim 29 (Original): The video playback unit according to claim 13, wherein said proxy video file uses the abstract video of 15 the main video file.

Claim 30 (Original): The video playback unit according to claim 29, wherein the abstract video utilizes the abstract video formed by combining the videos which abstracts a part within each section which divides the main video file into a predetermined time section.

Claim 31 (Original): The video playback unit according to claim 29, wherein the abstract video utilizes the abstracted video formed by combining the videos which extracts a part within each shot section which divides the main video file into shots.

Claim 32 (Original): The video playback unit according to claim 29, wherein said abstracted video utilizes the abstracted video formed by combining the still images which extracts the videos of the several times within the main video file.

Claim 33 (Original): A computer readable recording medium comprising the steps of:

- reading in the video description file of a designated video group;
- playing back a first main video file designated by the video information described in the video description file;
- playing back a second proxy video file designated by the video information described in the video description file; and
- displaying the first main video and the second proxy video played back by said steps.